DECLARATION AND POWER OF ATTORNEY (Attorney Docket No. 102603.172)

As below-named inventor, I hereby declare that:

My residences, post office addresses and citizenship are as stated below next to my name.

I believe I am the original, first and only inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HUMAN PROTEINS RESPONSIBLE FOR NEDD8 ACTIVATION AND CONJUGATION

the specification of which (check only one):

[]	is attached hereto.
[x]	was filed as United States Patent Application Serial No. 09/216,430 on December 18, 1998
	and was amended
	on
	(if applicable)
[]	was filed as PCT Patent Application Serial No
	on
	and was amended under PCT Article 19
	on
	(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of the claims of this application in accordance with Title 37, Code of Federal Regulations, Sections 1.56(a) and 1.56(b).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119:

COUNTRY (if PCT indicate PCT) APPLICATION NUMBER

DATE OF FILING

PRIORITY CLAIMED UNDER 35 U.S.C. §119 (YES/NO)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional patent application(s) listed below:

APPLICATION NUMBER	DATE OF FILING	STATUS: (PENDING OR ABANDONED)	
60/068,209	December 19, 1997	Abandoned	
60/096,525	August 12, 1998	Pending	

I hereby claim the benefit under Title 35, United States code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATION OR PCT INTERNATIONAL APPLICATION(S) DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. § 120:

APPLICATION NUMBER

DATE OF FILING (day, month, year)

STATUS: (PATENTED, PENDING OR ABANDONED)

POWER OF ATTORNEY: As named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

James B. Lampert	Reg. No. 24,564
Wayne M. Kennard	Reg. No. 30,271
Michael J. Bevilacqua	Reg. No. 31,091
Hollie L. Baker	Reg. No. 31,321
Henry N. Wixon	Reg. No. 32,073
Donald R. Steinberg	Reg No. 37,241
Wayne A. Keown, Ph.D.	Reg. No. 33,923
Ann-Louise Kerner, Ph.D.	Reg. No. 33,523
Michael A. Diener	Reg. No. 31,122

Colleen Superko	Reg. No. 39,850
Richard Goldenberg	Reg. No. 38,895
Gretchen A. Rice, Ph.D.	Reg. No. 37,429
Peter Dichiara	Reg. No. 38,005
Scott M. Alter	Reg. No. 32,879
Edward Grieff	Reg. No. 38,898
Jason A. Reyes	Reg. No. 41,513
Keum J. Park	Reg. No. 42,059
Janice M. Klunder, Ph.D.	Reg. No. 41,121
Rajesh Vallabh	Reg. No. 35,761
Nancy Chiu, Ph.D.	Reg. No. 43,545

the mailing address and telephone number of each of whom is HALE AND DORR LLP, 60 State Street, Boston, Massachusetts 02109, and (617) 526-6000.

Send Correspondence to:

Direct Telephone Calls to:

Date <u>5/18/99</u>

Wayne A. Keown HALE AND DORR LLP 60 State Street Boston, MA 02109

Wayne A. Keown Tel: (617) 526-6000 Fax: (617) 526-5000

Wherefore, I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of our my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole inventor: Vincent Chau

Inventor's signature 232 Summit Avenue #W302, Brookline, MA 02146 Residence:

United States Citizenship:

Post Office Address: 232 Summit Avenue #W302, Brookline, MA 02146 232



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Offic

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

DECEMBER 19, 2000

HALE AND DORR LLP WAYNE A. KEOWN, PH.D. 60 STATE STREET BOSTON, MA 02109

PTAS



UNITED STATES FATENT AND TRADEMARK OFFICE
NOTICE OF RECORDANCE PROPERTY.

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE H.C. DATEMENT AND TRADEMARK OFFICE. A COMPLETE MICROSTIM CODY TO THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/21/2000

REEL/FRAME: 011175/0349

NUMBER OF PAGES: 4

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PROSCRIPT, INC.

DOC DATE: 03/15/2000

ASSIGNEE:

LEUKOSITE, INC. 215 FIRST STREET CAMBRIDGE, MASSACHUSETTS 02142

SERIAL NUMBER: 09216430

PATENT NUMBER:

FILING DATE: 12/18/1998

ISSUE DATE:

Docketed _____ By On gland

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FORM PTO-1:595 RECO 10-2	7-2000 EET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
(Rev. 5-93)	
Tab settings □ □ ▼	
To the Honorable Commissioner of Paten 1012	197746 red original documents or copy thereof.
1. Name of conveying party(ies): ProScript, Inc. 38 Sidney Street Cambridge, MA 02139 Additional name(s) of conveying party(ies) attached? Yes No	2. Name and address of receiving party(ies): Name: LeukoSite, Inc. Internal Address:
Additional manual of the second of the secon	
3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Change of Name	Street Address: 215 First Street
☐ Security Agreement ☐ Change of Name	City: Cambridge State: MA ZIP: 02142
Execution Date:	Additional name(s) & address(es) attached? ロ Yes 년 No
A. Patent Application No.(s) 09/216,430; filed 12/18/98 Additional numbe	B. Patent No.(s) Ins attached? □ Yes ☑ No
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:
concerning document should be mailed:	(T 055 0 44)
Name: Wayne A. Keown, Ph.D.	7. Total fee (37 CFR 3.41)\$ 40.00
Internal Address: Hale and Dorr LLP	☐ Enclosed ☐ Authorized to be charged to deposit account Charge any additional fees associated with this paper or during the pendancy of this application, or credit any overpayment, to deposit account.
Street Address: 60 State Street	8. Deposit account number:
City: Boston State: MA ZIP: 02109	(Attach duplicate copy of this page if paying by deposit account)
DO NOT U	JSE THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing inf the original document. Output Description:	formation is true and correct and any attached copy is a true copy of
Janice M, Klunder Name of Person Signing	Signature Date

State of Delaware

PAGE 1

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"PROSCRIPT, INC.", A DELAWARE CORPORATION,

WITH AND INTO "LEUKOSITE, INC." UNDER THE NAME OF
"LEUKOSITE, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER
THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS
OFFICE THE SIXTEENTH DAY OF MARCH, A.D. 2000, AT 12 O'CLOCK P.M.



Edward J. Freel, Secretary of State

0512438

AUTHENTICATION:

06-21-00

2296418 8100M

001315321

DATE:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Atty Docket No. 103.576.127)

Serial No.:	09/216,430)	Group Art Unit:	1643
Filed:	December 18, 1998)	Examiner:	C. Fronda
Inventors:	Vincent Chau))		
Title:	Human Proteins Responsible for Nedd8 Activation and Conjugation)		

BOX ASSIGNMENT

Commissioner for Patents Washington, D.C. 20231

CERTIFICATE OF MAILING (37 C.F.R. § 1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

and of Mail Deposit

Dear Commissioner:

TRANSMITTAL LETTER

Enclosed for filing are the following documents:

- Form PTO-1595 (Recordation Form Cover Sheet) for ProScript, Inc.;
- 2. Certificate of Ownership and Merger, Merging ProScript, Inc. into LeukoSite, Inc.;
- 3. Form PTO-1595 (Recordation Form Cover Sheet) for LeukoSite, Inc.;
- 4. Certificate of Ownership and Merger, Merging LeukoSite, Inc. into Millennium Pharmaceuticals, Inc.; and
- 5. Return postcard.

Chau

Serial No.: 09/216,430

Page 2

No fees other than those provided on the papers enclosed hereafter, are believed to be due in connection with this correspondence. However, please apply any charges or credit any overpayments to out Deposit Account No. <u>08-0219</u>.

If there are any questions, please call the undersigned at the telephone number indicated below.

Respectfully submitted,

HALE AND DORR LLP

Date: 9/,4/00

Janice M. Klunder, Ph.D.
Registration No. 41,121
Agent for Applicants

60 State Street Boston, MA 02109 (617) 526-6000 (617) 526-5000 (fax)

anthony w. sutton - z:\legal\103576.127\trans_ltrmerger.doc



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

AUGUST 23, 1999

PTAS

HALE AND DORR LLP WAYNE A. KEOWN, PH.D. 60 STATE STREET BOSTON, MA 02109



101072946A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/21/1999

REEL/FRAME: 010034/0565

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CHAU, VINCENT

DOC DATE: 05/18/1999

ASSIGNEE:

PROSCRIPT, INC. 38 SIDNEY STREET CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09216430

PATENT NUMBER:

FILING DATE: 12/18/1998

ISSUE DATE:

TARA WASHINGTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

RM PTO-1595 (MODIFIED)		
·v. 6-93)		
4B No. 0651-0011 (exp. 4/94)		

REC

06-23-1999

U.S.DEPARTMENT OF COMMERCE
Patent and Trademark Office

fab settings <<<< > ▼

101072946

V + 22 f = 100 = 100 € 1

To the Honorable Commissioner of Patents and Trademarks	E Please record the attached original documents or copy thereof.
Name of conveying party(ies):	2. Name and address of receiving party(ies):
	Name: ProScript, Inc.
Vincent Chau	Internal Address:
Meo 6.21.99	
Additional name(s) of conveying party(ies) attached? 🗀 Yes 🗓 No	20. Gillary Chroot
Nature of conveyance:	Street Address: 38 Sidney Street
🖎 Assignment 🗀 Merger	02120
☐ Security Agreement ☐ Change of Name	City: Cambridge, State: MA ZIP: 02139
☐ Other	No. 3 August 2 (1 Yes W No.
kecution Date: May 18, 1999	Additional name(s) & address(es) attached? U Yes 💆 No
Application number(s) or patent number(s):	
If this document is being filed together with a new app	lication, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
09/216,430	
(Atty. Docket No. 102603.172) Additional number	rs attached? 🛘 Yes 🕉 No
Name and address of party to whom correspondence concerning document should be mailed.	6. Total number of applications and patents involved:
Name: Wayne A. Keown, Ph.D.	
Internal Address: Hale and Dorr LLP	7. Total fee (37 CFR 3.41)\$ 40.00
	☐ Enclosed ☐ Charge fees to Deposit Account
Street Address: 60 State Street	Charge any additional fees associated with this paper or during the pendancy of this application, or credit any overpayment, to deposit account.
City: Boston, State: MA ZIP: 02109	8. Deposit account number:
2.1939 JSMAHAZZ 00000202 080219 09216430	08-0219
.:38 <u>:</u> 40.00 CR	(Attach duplicate copy of this page if paying by deposit account)
	USE THIS SPACE
Statement and signature. To the best of my knowledge and belief, the foregoing in original document.	information is true and correct and any attached copy is a true copy of t
Wayne A. Keown, Ph.D.	<u> </u>
Name of Person Signing	Signature
Total number of pages include	ding cover sheet, attachments, and document:

Attorney Docket No.: 102.603.172

ASSIGNMENT

j

WHEREAS, I, Vincent Chau, being a citizen of the United States of America, residing at 222 Summit Avenue #W302, Brookline, MA 02146, United States of America, am the inventor of certain new and useful inventions and discoveries, for which I have made an application for Letters Patent entitled "HUMAN PROTEINS RESPONSIBLE FOR NEDD8 ACTIVATION AND CONJUGATION" the specification of which was filed with the United States Patent and Trademark Office on December 18, 1998 and assigned United States patent application serial number 09/216,430; and

WHEREAS, ProScript, Inc., whose address is 38 Sidney Avenue, Cambridge MA 02139, United States of America, and which, together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

NOW, THEREFORE, for and in consideration of my employment by ASSIGNEE and other valuable consideration furnished by ASSIGNEE to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservations:

1. Assign, transfer, and convey to ASSIGNEE my entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, continued prosecution applications, and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patents, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and

every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications, and said Letters Patent;

1

- 2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;
- 4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to ASSIGNEE without encumbrance;
- 5. Bind my heirs, legal representatives, and assigns, as well as myself, to do, upon ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to me or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all

assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to me relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of my heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

WITNESS my hand and seal this <u>18</u> day of <u>May</u>, 1999.

Vincent Chau

The foregoing instrument was acknowledged before me this 18^{+h} day of

May 1999 by Vincent Chau.

NOTARY PUBLIC

DEBRA L SANSONE Notary Public

My Comm. Espires May 15, 2003

-3-

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Vincent Chau

Art Unit:

1643

Serial No.:

09/216,430

Examiner:

Not assigned

Filing Date:

December 18, 1998

Title:

HUMAN PROTEIN RESPONSIBLE FOR NEDD8 ACTIVATION AND

CONJUGATION

Box Assignment

Assistant Commissioner for Patents Washington, DC 20231

CERTIFICATION UNDER 37 CFR § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to **Box Assignment**, Assistant Commissioner for Patents, Washington, D.C. 20231.

6-16-99
Date of Signature and of Mail Deposit

Donna Puleo

TRANSMITTAL LETTER OF ASSIGNMENT

Dear Sir:

Enclosed herewith for filing in the above-identified patent application are the following documents:

- 1. Assignment;
- 2. Form PTO-1595 (Recordation Form Cover Sheet); and
- 3. Return Postcard.

Transmittal Letter of Assignment Serial No. 09/216,430 June 16, 1999 Page 2 of 2

If there are any questions, please call the undersigned at the telephone number indicated below.

Respectfully submitted, HALE AND DORR LLP

Janice M. Klunder, Ph.D. Registration No. 41,121

June 16, 1999

60 State Street Boston, MA 02109 (617) 526-6000 (617) 526-5000 (fax)



DECEMBER 19, 2000

HALE AND DORR LLP WAYNE A. KEOWN 60 STATE STREET BOSTON, MA 02109



DEC 2 6 2000



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/21/2000

REEL/FRAME: 011175/0357

NUMBER OF PAGES: 4

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LEUKOSITE, INC.

DOC DATE: 03/15/2000

ASSIGNEE:

MILLENNIUM PARMACEUTICALS, INC. 75 SIDNEY STREET CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09216430

PATENT NUMBER:

FILING DATE: 12/18/1998

ISSUE DATE:

DIANE RUSSELE, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS Docketed____ on_

10 - 27 - 20 FORI' PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) Tab settings □ □ □ ▼ To the Honorable Commissioner of Patents and Trademarks: P	Sh. ET U.S. DEPARTMENT OF COMMISSION	
1. Name of conveying party(ies): LeukoSite, Inc. 215 First Street Cambridge, MA 02142 Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance:	Name and address of receiving party(ies): Name: Millennium Parmaceuticals, Inc. Internal Address:	
□ Assignment	Street Address: 75 Sidney Street City: Cambridge State: MA ZIP: 02139 Additional name(s) & address(es) attached? □ Yes ☑ No	
 4. Application number(s) or patent number(s): If this document is being filed together with a new application A. Patent Application No.(s) 09/216,430; filed 12/18/98 	B. Patent No.(s)	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Wayne A. Keown, Ph.D. Internal Address: Hale and Dorr LLP	attached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41)\$ 40.00 Enclosed Authorized to be charged to deposit account Charge any additional fees associated with this paper or during the pendanc of this application, or credit any overpayment, to deposit account.	
Street Address: 60 State Street City: Boston State: MA ZIP: 02109	8. Deposit account number: 08-0219 (Attach duplicate copy of this page if paying by deposit account)	
DO NOT US	SE THIS SPACE	

Statement and signature.To the best of my knowledge and belief, the foregoing information is true and correct and any attached					ny attached copy is a true copy o
	the original document.	_			9/1/2

Janice M. Klunder, Ph.D. Name of Person Signing

9/14/00 Date

Total number of pages including cover sheet, attachments, and document:

State of Delaware

PAGE 1

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"LEUKOSITE, INC.", A DELAWARE CORPORATION,

WITH AND INTO "MILLENNIUM PHARMACEUTICALS, INC." UNDER THE NAME OF "MILLENNIUM PHARMACEUTICALS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SIXTEENTH DAY OF MARCH, A.D. 2000, AT 5:30 O'CLOCK P.M.

Edward J. Freel, Secretary of State

0512437

AUTHENTICATION:

06-21-00

2296418 8100M

001315321

DATE:

CERTIFICATE OF OWNERSHIP AND MERGER

MERGING

LeukoSite, Inc.
(a Delaware corporation)

INTO

Millennium Pharmaceuticals, Inc. (a Delaware corporation)

Millennium Pharmaceuticals, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify:

FIRST: That the Corporation was incorporated on the 13th day of January, 1993 pursuant to the General Corporation Law of the State of Delaware.

SECOND: That the Corporation owns all of the outstanding shares of each class of the stock of LeukoSite, Inc., a corporation incorporated on the 1st day of May, 1992 pursuant to the General Corporation Law of the State of Delaware.

THIRD: That the Executive Committee of the Board of Directors of the Corporation, by written consent effective as of the 13th day of March, 2000, duly adopted the following resolutions:

- RESOLVED: That, pursuant to Section 253 of the Delaware General Corporation Law, the Corporation is hereby authorized to merge LeukoSite, Inc., a Delaware corporation which is a wholly owned subsidiary of the Corporation, into the Corporation;
- RESOLVED: That the President and Secretary of the Corporation be and each hereby is, authorized to execute a Certificate of Ownership and Merger with respect to the merger of LeukoSite, Inc. into the Corporation, cause the same to be filed with the Secretary of State of Delaware and take all such other actions and to execute all such other instruments and agreements as they or any of them may deem appropriate to effect such merger;
- RESOLVED: That the merger of LeukoSite, Inc. into the Corporation shall be effective upon the filing of a Certificate of Ownership and Merger with the Secretary of State of Delaware.

IN WITNESS WHEREOF, the Corporation has caused this Certificate to be signed by its authorized officer this 15th day of March, 2000.

MILLENNIUM PHARMACEUTICALS, INC.

Title: Secretary

Jack Douglas